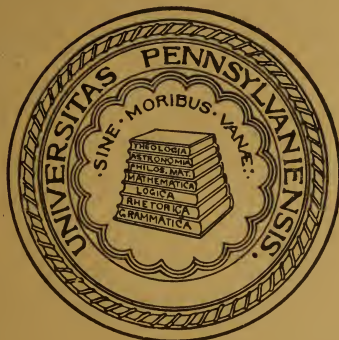


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1896/97

CATALOGUE  
OF THE  
UNIVERSITY OF PENNSYLVANIA



Founded 1740

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FASCICULUS

OF THE  
DEPARTMENT OF DENTISTRY  
AND

Announcements for Session 1896-97

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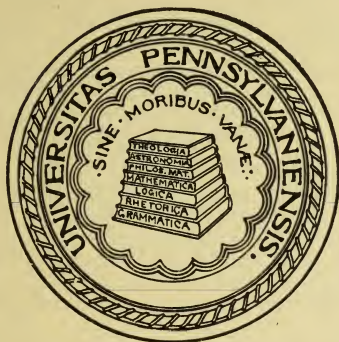
PHILADELPHIA

PRINTED FOR THE UNIVERSITY

April, 1896



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OF THE  
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April, 1896



# THE UNIVERSITY.

## General Information.

### LOCATION.

The buildings of the University, twenty-two in number, are situated in West Philadelphia, on property covering an area of forty-eight and one-half acres. The University may be reached from the various railroad depots in Philadelphia by the electric cars as follows: From the terminal stations of the Philadelphia & Reading and Pennsylvania railroads; Market street cars west to Thirty-second street, exchanging thence out Woodland avenue, a ride of about fifteen minutes; or, from the Baltimore & Ohio railroad depot, by a walk of one square south to Walnut street, thence by car over the bridge west to Thirty-fourth street, a ride of about five minutes.

### ACCOMMODATIONS FOR STUDENTS.

Board and lodging may be obtained in the immediate vicinity of the University from five dollars per week upwards. Upon application at the offices of the Deans of the several Departments (see *Administrative Officers*, following), lists of recommended boarding houses may be seen. All of these houses are visited and endorsed by the University authorities, who exercise a general supervision over the boarding places of students.

The erection of an elaborate dormitory system, arranged on the "cottage" plan of contiguous houses, has been commenced by the Corporation; and, before the opening of the Academic year of 1896-97, a sufficient number of these dormitories will have been completed to accommodate over three hundred and fifty students.

### APPLICATIONS FOR CATALOGUES AND CIRCULARS.

Applications for copies of the annual University Catalogue (published in December) should be addressed to the Assistant Secretary, University of Pennsylvania, Philadelphia, Pa. No charge is made for the Catalogue, *but in all cases the request must be accompanied by ten cents in stamps*, to cover return postage.

Special Circulars of Information, relating either to the separate Departments of the University, or to the various courses offered in the College proper, will be mailed free to anyone, upon receipt of name and address. Such applications should be addressed to the Deans of the respective departments.

### SPECIAL INFORMATION.

All letters of inquiry regarding the internal regulations and requirements in each separate Department of the University, should be addressed to the Dean of the particular Department (see *Administrative Officers*, following), and *not* to the Secretary of the University. This statement refers to such information only as may not be fully understood from the succeeding pages.

Persons desiring copies of the College entrance examination papers of the preceding year may obtain the same upon application to the Sub-Dean of the College.

1896.														1897.											
JANUARY.							JULY.							JANUARY.											
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## DENTAL CALENDAR FOR 1896-97.

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Sept. 28, Monday, ...Examinations for Admission to Advanced Standing, and Re-examinations of Undergraduates : 10 A. M.

Sept. 29, Tuesday, ...Entrance Examinations : 10 A. M.

Oct. 1, Thursday, ...Session begins : 12 M.

Nov. 25, Wednesday, ...Thanksgiving Recess begins : 6.30 P. M.

Nov. 30, Monday, ...Thanksgiving Recess ends : 10 A. M.

Dec. 23, Wednesday, ...Christmas Recess begins : 5.30 P. M.

1897.

Jan. 4, Monday, ...Christmas Recess ends : 10 A. M.

Feb. 22, Monday, ...Washington's Birthday : Recess, all Departments. University Day.

April 15, Thursday, ...Easter Recess begins : 5.30 P. M.

April 19, Monday, ...Easter Recess ends : 10 A. M.

June 10, Thursday, ...Commencement : 11 A. M.



## BRIEF HISTORICAL SKETCH.

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The University of Pennsylvania traces its origin to the year 1740, when a charitable school was founded in the city of Philadelphia. In 1749, a pamphlet entitled "Proposals Relative to the Education of Youth in Pennsylvania," written by Dr. Franklin, led to a united effort by certain citizens to raise this school to the dignity of an Academy. In 1751 this was accomplished, and the Academy, consisting of an English, a Mathematical and a Latin school, each under a master with subordinate tutors and ushers, was formally opened. Two years later (1753) a charter was granted to the trustees of the institution by Thomas and Richard Penn, the proprietaries of the Province of Pennsylvania.

Under the skillful training of the learned Rev. William Smith, the first Provost, the highest class of the Academy attained that proficiency which in a college course would have entitled its members to a degree. This led to a new appeal to the proprietaries for a college charter. In 1755 such a charter was granted, which designated the institution as the College and Academy of Philadelphia in the Province of Pennsylvania.

In 1764, Dr. Smith visited England to secure funds for the college. He received liberal support among men of all shades of religious belief. Concerned lest the institution might become sectarian, they urged the trustees to make a declaration of non-sectarian principles which should be binding on their successors. Accordingly, they resolved that henceforth, as heretofore, no question of religious belief should ever enter into questions of administering the college or appointing its officers.

In the revolutionary period, the college was looked upon with distrust by the radical patriots, and in 1779 the declaration above named was seized as a pretext for withdrawing the charter. A new institution, entitled the "University of the State of Pennsylvania," was chartered at the same time. After ten years of ineffectual work for both institutions, a compromise was effected and a union projected. In 1791, this amalgamation was confirmed by act of legislature, and the name "University of Pennsylvania" conferred upon the new institution.



## BRIEF HISTORICAL SKETCH.

The University of Pennsylvania now includes the following departments, established at the dates indicated :

- (1740. Charitable School ; out of which grew, in)
- 1751. The College.
- 1767. The Department of Medicine.
- 1790-1850. The Department of Law.
- 1865. The Auxiliary Department of Medicine.
- 1876. The University Hospital.
- 1878. The Department of Dentistry.
- 1882. The Department of Veterinary Medicine.
- 1883. The Veterinary Hospital.
- 1883. The Department of Physical Education.
- 1883. The Department of Philosophy.
- 1889. The Museum of Archaeology and Paleontology.
- 1891.\* The University Library.
- 1894. The Wistar Institute of Anatomy and Biology.

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\*Building erected.

## ADMINISTRATIVE OFFICERS.

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### THE UNIVERSITY.

*Provost*—CHARLES C. HARRISON, A. M.

Office, 101 College Hall, West Philadelphia. Office hours, Tuesdays and Fridays, 9.15 A. M. to 11 A. M.

*Vice-Provost*—REV. GEORGE S. FULLERTON, PH. D.

Office, 103 College Hall, West Philadelphia. Office hours, 9 A. M. to 10 A. M., except Saturdays.

*Treasurer*—ARTHUR E. NEWBOLD.

Office, 113 South Fifth Street, Philadelphia. Office hours, 10 A. M. to 3 P. M.

*Secretary*—REV. JESSE Y. BURK, A. M.

Office, 114 College Hall, West Philadelphia. Office hours, 10 A. M. to 1 P. M.

*Assistant Secretary*—J. HARTLEY MERRICK, A. B.

Office, 114 College Hall, West Philadelphia. Office hours, 9.30 A. M. to 4.30 P. M. Saturdays, 9.30 A. M. to 12.30 P. M.

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### THE COLLEGE AND PROFESSIONAL FACULTIES.

*Dean of the College Faculty*—REV. GEORGE S. FULLERTON, PH. D.

Office, 103 College Hall, West Philadelphia. Office hours, 9 A. M. to 10 A. M., except Saturdays.

*Sub-Dean of the College*—EDWIN S. CRAWLEY, B. S., PH. D.

Office, 103 College Hall, West Philadelphia. Office hours, 9 A. M. to 12 M. Saturdays, 9 A. M. to 10 A. M.

*Assistant to the Dean of the College*—EDWARD W. MUMFORD, PH. B.

Office, 103 College Hall, West Philadelphia. Office hours, 9 A. M. to 4 P. M. Saturdays, 9 A. M. to 1 P. M.

*Dean of the Faculty of Philosophy*—WILLIAM A. LAMBERTON, A. M.,  
LITT. D.

Office, 103 College Hall, West Philadelphia. Office hours, Wednesdays and Saturdays, 10 A. M. to 11 A. M.

*Dean of the Law Faculty*— — — — —

Office in the Law Department, Sixth and Chestnut Streets, Philadelphia.

ADMINISTRATIVE OFFICERS.

*Sub-Dean of the Law Faculty*—GEORGE STUART PATTERSON, A. B., LL. B.

Office in the Law Department, Sixth and Chestnut Streets, Philadelphia. Office hours, Mondays, Tuesdays, Thursdays and Saturdays, 9 A. M. to 10 A. M.

*Dean of the Medical Faculty*—JOHN MARSHALL, M. D., NAT. SC. D.  
Office, 1 Medical Hall, West Philadelphia. Office hours, 1 P. M., daily.

*Dean of the Dental Faculty*—EDWARD C. KIRK, D. D. S.  
Office, 18 Medical Hall, West Philadelphia. Office hours, 9 A. M. to 1 P. M., daily.

*Dean of the Faculty of Veterinary Medicine*—JOHN MARSHALL, M. D., NAT. SC. D.  
Office, 1 Medical Hall, West Philadelphia. Office hours, 1 P. M., daily.

*Dean of the Faculty Auxiliary to Medicine*—CHARLES K. MILLS, M. D.  
Office, 26 Medical Hall, West Philadelphia. Office hours, Wednesdays, 5 P. M. to 5.30 P. M.

## SUMMARIES.

### GENERAL SUMMARIES.

#### PROFESSORS, LECTURERS AND INSTRUCTORS.

The College . . . . .	106	
Department of Philosophy . . . . .	44	
"    "    Law . . . . .	13	
"    "    Medicine (exclusive of Hospital Service) . . . . .	80	
Auxiliary Department of Medicine . . . . .	5	
Laboratory of Hygiene . . . . .	4	
Department of Dentistry . . . . .	44	
"    "    Veterinary Medicine . . . . .	17	
Emeritus Professors . . . . .	6	
		319
Duplications . . . . .		68
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Total . . . . .		251

#### STUDENTS.

The College . . . . .	871	
Department of Philosophy . . . . .	172	
"    "    Law . . . . .	313	
"    "    Medicine . . . . .	873	
Auxiliary Department of Medicine . . . . .	44	
Laboratory of Hygiene . . . . .	23	
Department of Dentistry . . . . .	323	
"    "    Veterinary Medicine . . . . .	61	
		2680
Duplications . . . . .		48
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Total . . . . .		2632

#### STUDENTS SUMMARIZED GEOGRAPHICALLY.

Alabama . . . . . 2	Colorado . . . . . 4	Germany . . . . . 6
Arkansas . . . . . 1	Connecticut . . . . . 17	Hungary . . . . . 1
Australia . . . . . 4	Cuba . . . . . 5	Idaho . . . . . 1
Austria . . . . . 1	Delaware . . . . . 59	Illinois . . . . . 17
Barbadoes . . . . . 1	District Columbia . . . . . 8	Indiana . . . . . 17
Brazil . . . . . 3	Ecuador . . . . . 2	Indian Territory . . . . . 1
British Columbia . . . . . 1	England . . . . . 4	Iowa . . . . . 16
California . . . . . 7	Florida . . . . . 3	Ireland . . . . . 1
Canada . . . . . 13	Georgia . . . . . 9	Jamaica, W. I. . . . . 2

# SUMMARIES.

Japan . . . . .	3	New York . . . . .	92	South Carolina . . .	3
Kansas . . . . .	8	Nicaragua . . . . .	2	Spain . . . . .	1
Kentucky . . . . .	2	North Carolina . . .	6	Switzerland . . . . .	2
Louisiana . . . . .	3	North Dakota . . . .	1	Tennessee . . . . .	6
Maine . . . . .	6	Norway . . . . .	1	Texas . . . . .	7
Maryland . . . . .	10	Nova Scotia . . . . .	1	Turkey . . . . .	1
Massachusetts . . . .	44	Ohio . . . . .	38	U. S. of Colombia . .	1
Mexico . . . . .	2	Oregon . . . . .	2	Utah . . . . .	3
Michigan . . . . .	10	Pennsylvania . . . .	1925	Venezuela . . . . .	1
Minnesota . . . . .	4	Peru . . . . .	1	Vermont . . . . .	4
Missouri . . . . .	14	Prince Edward		Virginia . . . . .	8
Montana . . . . .	1	Island . . . . .	2	Washington . . . . .	2
Nebraska . . . . .	4	Puerto Rico . . . . .	2	West Indies . . . . .	1
New Brunswick . . . .	3	Rhode Island . . . .	6	West Virginia . . . .	12
New Hampshire . . . .	7	Roumania . . . . .	1	Wisconsin . . . . .	20
New Jersey . . . . .	144	Russia . . . . .	7		
New Mexico . . . . .	1	Scotland . . . . .	1	Total . . . . .	2632

## HOWARD HOUSTON HALL.

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HOUSTON HALL, a club house for the use of the students of the University of Pennsylvania, was formally dedicated to its uses on the evening of Thursday, January 2, 1896. This building, within whose walls centres the daily social life of the students, was erected largely through the generosity of the late H. H. Houston, a trustee of this University, and his wife, as a memorial to their eldest son, Henry Howard Houston, Jr., a member of the College Class of 1878. The corner-stone was laid on December 22, 1894.

The situation of HOUSTON HALL, in almost the exact geographical centre of the University's great group of buildings, embodies to a large extent the idea of its existence as a centralization of the University's undergraduate interests. Its purposes, briefly stated, are to provide for the students of the various departments a place where all may meet on common ground ; and to furnish them with every available facility for passing their leisure hours in harmless recreation and amusement. The equipment of the Hall includes a reading room, with a large number of periodicals and newspapers ; smoking rooms, billiard and pool tables, tables for chess and checkers, a correspondence room, bowling alleys, shuffleboards, a bath room, including shower and needle baths, and a swimming pool ; athletic trophy rooms, a large meeting hall, with a fine organ, rooms for the college papers and other organizations, a dark room for amateur photographers, and many other rooms for general purposes.

The Hall is the home of a new organization, the Houston Club, to which any student is eligible, and to this Club is entrusted the government of the Hall. The cost of membership is one dollar a year. The special privileges of the Hall, such as the use of the Club note paper, the baths, billiards, bowling alley, etc., are open only to members of the Club, who pay small fees for the same.

# UNIVERSITY DORMITORIES.

## METHOD OF ASSIGNMENT.

THE UNIVERSITY DORMITORIES, situated on the plot of ground between Thirty-seventh and Pine Streets and Woodland Avenue, will be ready for occupancy at the opening of the academic year 1896-97. Copies of the plans of the buildings, with sizes of rooms, a list of the rooms to be let, and other information, may be had at the office of the Dean of the College, in College Hall, on and after February 15, 1896. Blank applications for rooms, to be signed by the applicants, will also be ready for delivery at that time.

An announcement of the assignment of rooms will be made on May 9. Rooms for which leases have not been signed at the end of one week from the day when the assignments are made may be re-assigned. As far as possible, length of previous attendance at the University will be considered in the allotments.

In the assignment of a "double room" (marked for two students on the plans), preference will be given to an application signed by two students who will use the room together. Two students wishing to apply for a room together should both sign an application for the room; such an application will be given two chances in the allotment, and any room drawn will be assigned to both the applicants. The University, however, reserves the right to cancel any assignment of a room to two students if the room is not duly claimed and occupied throughout the year by the two students signing the application. Suspension or expulsion from the University, or serious infringement of the rules, will be considered sufficient ground for the cancellation by the University of any lease.

If one of two room-mates is expelled or suspended, or so infringes University rules as to make his removal from the Dormitories necessary, the other room-mate may have the room assigned to him by signing a new application; provided that there are not two other students applying together for the room. Or he may hold the room by taking another room-mate, who must be qualified by filing an application and bond.

Every student wishing to occupy a University room must file with his application a bond for \$125.00. The bond must be signed by two responsible persons, of whom one must be a citizen of the United



States. No student or officer of the University will be accepted as bondsman. Or, instead of filing a bond for one of the amounts mentioned, a student may pay in advance the full year's rent of the room, and make a deposit of Ten Dollars to cover possible damage, any balance remaining to be returned when the room is finally given up. Or the student may pay half the year's rent in advance, and give a bond covering the other half and the deposit of Ten Dollars required. Each tenant will be held for the full year's rent and charges against the room. But when the room is vacated before the end of the college year, the bondsmen shall not be held responsible for the rent of the room for the rest of the year if the room is rented to another tenant.

Only members of the University may occupy University rooms. Rentals will include heat, light, and all reasonable care of the rooms. Additional services must be paid for as extras, and must in all cases be performed by persons authorized by the University.

## DEPARTMENT OF DENTISTRY.

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### FACULTY.

CHARLES C. HARRISON, A. M., PROVOST.

REV. GEORGE S. FULLERTON, PH. D., VICE-PROVOST.

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CHARLES J. ESSIG, M. D., D. D. S., Professor of Mechanical Dentistry and Metallurgy.

EDWIN T. DARBY, M. D., D. D. S., Professor of Operative Dentistry and Dental Histology.

JAMES TRUMAN, D. D. S., Professor of Dental Pathology, Therapeutics and Materia Medica.

EDWARD C. KIRK, D. D. S., Professor of Clinical Dentistry, and  
DEAN OF THE FACULTY.

THEODORE G. WORMLEY, M. D., LL. D., Professor of Chemistry.

EDWARD T. REICHERT, M. D., Professor of Physiology.

GEORGE A. PIERSOL, M. D., Professor of Anatomy.

JOHN MARSHALL, M. D., NAT. SC. D., Assistant Professor of Chemistry.

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ROBERT HUEY, D. D. S., Lecturer on Operative Dentistry.

JOHN D. THOMAS, D. D. S., Lecturer on Nitrous Oxide.

NORMAN STURGES ESSIG, D. D. S., Lecturer on Mechanical Dentistry.

MEYER L. RHEIN, M. D., D. D. S., Lecturer on Dental Pathology.

SAFFORD G. PERRY, D. D. S., Lecturer on Operative Dentistry.

### CLINICAL INSTRUCTORS.

DR. C. S. BECK,

DR. H. C. REGISTER,

DR. GEO. W. KLUMP,

DR. I. F. WARDWELL,

DR. W. G. A. BONWILL,

DR. J. A. WOODWARD,

DR. W. R. MILLARD,

DR. DANIEL N. McQUILLEN,

DR. R. R. UNDERWOOD,

DR. EDWARD I. KEFFER,

DR. E. H. NEALL,

DR. JOHN R. YORKS.

## DEMONSTRATORS.

- WILLIAM DIEHL, D. D. S., Demonstrator of Operative Dentistry.  
JAMES G. LANE, D. D. S., Demonstrator of Mechanical Dentistry.  
JAMES E. LODER, D. D. S., Assistant Demonstrator of Operative Dentistry.  
JOSEPH W. WHITE, D. D. S., Assistant Demonstrator of Operative Dentistry.  
AMBLER TEES, D. D. S., Assistant Demonstrator of Mechanical Dentistry, and Demonstrator of Continuous Gum Work.  
R. HAMILL D. SWING, D. D. S., Assistant Demonstrator of Operative Dentistry, and Demonstrator of Anæsthetics.  
FREDERICK W. AMEND, JR., D. D. S., Assistant Demonstrator of Mechanical Dentistry.  
MILTON N. KEIM, JR., D. D. S., Assistant Demonstrator of Mechanical Dentistry.  
J. EDWARD DUNWOODY, D. D. S., Assistant Demonstrator of Operative Dentistry.  
FRÉDERIC A. PEESO, D. D. S., Demonstrator of Crown and Bridge Work.  
J. THOMAS LIPPINCOTT, D. D. S., Assistant Demonstrator of Operative Dentistry.  
ROBERT J. SEYMOUR, D. D. S., Assistant Demonstrator of Mechanical Dentistry.  
GEORGE G. MILLIKEN, M. D., D. D. S., Assistant Demonstrator of Operative Dentistry.  
JOSEPH M. HILL, D. D. S., Assistant Demonstrator of Crown and Bridge Work.  
EDMUND W. HOLMES, M. D., Demonstrator of Anatomy.  
ROBERT FORMAD, M. D., Demonstrator of Normal Histology.  
RICHARD H. HARTE, M. D., Demonstrator of Osteology.  
DANIEL W. FETTEROLF, M. D., Assistant Demonstrator of Chemistry.

The Department of Dentistry of the University of Pennsylvania was organized in the early part of 1878. It was the third school created as a dental department of a university, having been preceded in this respect by the Harvard School of Dentistry (organized in 1867) and the Dental Department of the University of Michigan (organized in 1875).

The motive leading to the creation of dental schools as regular departments of the university educational system was the rapid growth

in the practice of dentistry as a profession. This was shown by the improvement in the educational equipment of its practitioners, and by the tendency to broaden the courses of instruction furnished by dental schools so as to meet the continual necessity for more thorough training.

Realizing that but two conceptions of the status of dentistry were possible, viz.; that it was either a branch of medicine, or else a separate profession: and believing that its close relationship with medicine called for the future development of dentistry in conformity therewith, the Trustees took action resulting in the creation of the Department of Dentistry of the University of Pennsylvania. The plan of instruction was so arranged that the branches common to both medicine and dentistry were taught concurrently by teachers who held corresponding chairs in both medical and dental faculties, while the strictly dental teaching was provided for by the creation of chairs whose incumbents were specially qualified for giving instruction in their respective branches.

The success of the Department of Dentistry has been marked from the beginning. A steady increase in the size of its classes, abundant clinical patronage and the large aggregate number and character of the operations done in its infirmary service are practical and convincing proofs of its success as a dental educational institution.

It is worthy of especial note that the Department of Dentistry is actually, as well as in name, a department of the general University system. Its position as a recognized member of the University family confers upon its students certain advantages pertaining to this relationship. It is the policy of the University authorities to place the educational status of the Department upon a University plane, *i. e.*; to so arrange the courses of instruction with respect to scope and nature of studies, that the equipment of its graduates shall have relatively as broad a basis as regards their calling as that possessed by the graduates of the other departments of the University.

The placing of the Department of Dentistry upon a University plane has other advantages. Its students enjoy in common with all other students of the University the privileges and social relationships pertaining to the student life of the whole body. Prominent among these features is membership in the Howard Houston Club, an organization governed by University students, and domiciled in a club house which in its fittings and appointments is second in completeness and beauty of furnishing to no other club house in Philadelphia. Also the use of the Dormitories, and admission to all of the athletic features of the University; and, with reasonable restrictions, the opportunity to pursue

such allied lines of study as in the judgment of the authorities may tend to add strength and fullness to the dental educational equipment.

The practical advantages that accrue to the dental student by such an arrangement are at once manifest; and its effect upon the status of the dental practitioner must be recognized when it is considered that, during his student life, his association with the students of the other professional departments of the University is upon a basis of equality in all that concerns the student life of the institution. The influence of this feature in bringing about a close relationship between dental and medical students develops a mutual respect and recognition, which in their career as practitioners is of the utmost importance.

### THE NEW DENTAL BUILDING.

The continued growth of the Department of Dentistry, both as to the size of its classes and the scope of its curriculum, has for some time past strained the present equipment to its utmost limits.

Realizing the need for more ample facilities for properly carrying on its educational work, the faculty of the Department of Dentistry has for several years urged the necessity for a more commodious building, devoted exclusively to the requirements of dental teaching, where the most approved methods of instruction could be pursued. The matter having received the favorable consideration of the Board of Trustees, a committee was appointed to consider and report upon plans for a new building, which should meet the requirements and be in harmony with the progressive policy of the University. A sub-committee was instructed to make a study of a number of the representative dental schools of this country, with a view to learning the best that had been done in the construction of dental college buildings, their equipment, and the pedagogical methods pursued. The report of this committee embodied the results of their study of ten representative dental colleges, and the valuable suggestions thus acquired formed the basis of the plans drawn for a new building for the Department of Dentistry of the University of Pennsylvania.

Work upon the plans is being pushed as rapidly as is consistent with thoroughness, and the construction of the building will be carried to completion upon the same lines. It is hoped that the new building will be ready for occupancy during the early part of the coming session.

The arrangement of the interior of the new dental building is such that facilities will be provided for the thorough education of the



student in every important detail of his professional work. The clinical operating room will occupy one entire floor of the main building, giving a floor space 170 by 50 feet and will be furnished throughout with the most approved fittings and appliances for the performance of the work. There will be one large general laboratory for prosthetic work, and separate departments for crown-and-bridge work, orthodontia technics, prosthetic technics, operative technics, metallurgical work, vulcanizing and modeling; special clinic rooms, and laboratories for histological and bacteriological work. Special arrangements are provided for the convenience and comfort of the students in the care of instruments, tools, etc., hat and coat rooms, lavatories, etc., and an assembly room for the exclusive use and recreation of the students when not on duty.

The lecture amphitheatre, which will comfortably seat 500, will join the main building by a corridor, and in relation with it will be arranged the dental museum and library, the laundry, store rooms and living apartments of the janitor, etc.

As the laboratory, or manual-training, method will be prominently developed as a necessary adjunct to the didactic teaching of the several chairs, facilities for carrying out the technic system of instruction will be provided in connection with each subject to which the system is applicable.

The equipment of the building will be of the most modern type, and will be arranged with especial reference to the needs of the system of instruction to be carried out, so that both building and its equipment shall be complete and thoroughly practical in all respects.

## COURSE OF STUDY.

The course of instruction is graded and extends over three years. It consists of three sessions of eight months each, beginning October 1 (or October 2, if the first falls on Sunday), and ending the second Thursday in June each year. Each regular session is followed by a shorter one of a practical character, confined wholly to the Operating Room. The short sessions are optional, beginning the day following Commencement, and ending the last of June.

Laboratory instruction, not only in Practical Dentistry, but also in Practical Chemistry, Histology and Osteology, forms a prominent feature of the course.

During the regular session, the following is the arrangement of studies :

**FIRST YEAR CLASS.**

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
10 A. M.	<b>Wormley.</b> General Chemistry.	<b>Wormley.</b> General Chemistry.	9 A.M. Laboratory Instruction in Mechanical Dentistry.		10 A. M. <b>Harte.</b> Osteology.	9 A.M. Instruction in Mechanical or Operative Dentistry.
11 A. M.	Laboratory Instruction in Mechanical Dentistry.	Laboratory Instruction in Mechanical Dentistry.		9 A.M. Chemical Laboratory Three hours.		
12 M.			12 M. Practical Histology. Two hours.		12 M. Practical Histology. Two hours.	<b>Truman</b> Dental Materia Medica.
1 P. M.	Operative Clinic.	<b>Harte.</b> Practical Osteology.		Operative Clinic.	Operative Clinic.	
3½ P. M.	<b>Piersol.</b> Anatomy.	<b>Piersol.</b> Anatomy.		<b>Piersol.</b> Anatomy.	<b>Piersol.</b> Anatomy.	
4½ P. M.	<b>Reichert.</b> Physiology	<b>Reichert.</b> Physiology	<b>Essig.</b> Mechanical Dentistry until Jan. 1 Metallurgy after Jan. 1.	<b>Reichert.</b> Physiology.	<b>Reichert.</b> Physiology.	
5½ P. M.	<b>Essig.</b> Mechanical Dentistry.					

For the study of Practical Histology the class is divided into sections, only one of which is occupied at a time. Those of the First-year students not thus engaged attend the Operative and Mechanical preliminary work.

**SECOND YEAR CLASS.**

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A. M.	Laboratory of Mechanical Dentistry, or Operative Clinic.	Laboratory of Mechanical Dentistry, or Operative Clinic.	Laboratory of Mechanical Dentistry, or Operative Clinic.	Laboratory of Mechanical Dentistry, or Operative Clinic.	Laboratory of Mechanical Dentistry, or Operative Clinic.	Laboratory of Mechanical Dentistry, or Operative Clinic.
10 A. M.	Crown and Bridge Work.	Crown and Bridge Work.	Crown and Bridge Work.	Crown and Bridge Work.	Crown and Bridge Work.	
11 A. M.						
12 M.						
1 P. M.	Operative Clinic.		Operative Clinic.		Operative Clinic.	
3½ P. M.	<b>Piersol.</b> Anatomy.	Operative Clinic.	<b>Kirk.</b> Clinical Dentistry.	Operative Clinic.	<b>Piersol.</b> Anatomy.	
4½ P. M.	<b>Reichert.</b> Physiology.	<b>Darby.</b> Operative Dentistry.	<b>Essig.</b> Mechanical Dentistry until Jan. 1. Metallurgy after Jan. 1.	<b>D rby.</b> Operative Dentistry.	<b>Reichert.</b> Physiology.	
5½ P. M.	<b>Essig.</b> Mechanical Dentistry.				<b>Truman.</b> Dental Pathology and Therapeutics.	



## THIRD YEAR CLASS.

<i>Hour.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>	<i>Saturday.</i>
9 A. M.	Operative Clinic and Clinical	Operative Clinic and Clinical	Operative Clinic and Clinical	Operative Clinic and Clinical	Operative Clinic and Clinical	Operative Clinic.
10 A. M.	Practice in Crown and Bridge Work.	Practice in Crown and Bridge Work.	Practice in Crown and Bridge Work.	Practice in Crown and Bridge Work.	Practice in Crown and Bridge Work.	
11 A. M.						
12 M.	Operative Clinic.	Operative Clinic.	Medical and Surgical Clinics, University Hospital.	Operative Clinic.	Operative Clinic.	Medical and Surgical Clinics, University Hospital.
1 P. M.						
2 P. M.			Kirk. Clinical Dentistry.			
3½ P. M.			Essig. Mechanical Dentistry until Jan. 1. Metallurgy after Jan. 1.			
4½ P. M.		Darby. Operative Dentistry.		Darby. Operative Dentistry.		
5½ P. M.	Essig. Mechanical Dentistry.				Truman. Dental Pathology and Therapeutics.	

## OPERATING-ROOM, LABORATORIES, ETC.

The department possesses exceptional facilities for thorough training in Dentistry, both theoretical and practical. The Operating-Room is 140 feet in length by 40 feet in width, and lighted by windows on all sides. In front of each window are placed a Morrison chair, a nickel-plated movable bracket and a walnut table. Battery wires are arranged to a number of the chairs for the use of electric pluggers.

The Mechanical Laboratory is equipped with all modern appliances, and is under the care of experienced instructors. Special clinics are given in continuous-gum and crown-and-bridge work.

The Chemical Laboratories are under the charge of the Assistant Professor of Chemistry.

The Dissecting-Room is large, well lighted, thoroughly ventilated, and furnished with ample material for the successful prosecution of anatomical studies.

In order to facilitate work in the practical branches, and to fully employ the student's time, the regular session is so arranged that the First-year student is required to devote the morning hours equally to dental, histological and chemical laboratory work.

During the second and third years, the student has the entire forenoon of each day for practical dental work. Ample opportunity is

afforded for practice in Operative and Mechanical Dentistry. In the latter branches, the students of the first year are divided into sections, thus devoting the time not otherwise engaged to practice in the operating and mechanical rooms.

This plan of gradation enables the First-year student to present himself for examination in the following branches: Chemistry, Materia Medica, Elementary Anatomy (with special reference to Histology, Osteology and Myology), and in Physiology, excepting the muscular and nervous systems. The Second-year student will be examined in Anatomy and Physiology. Such an arrangement is economical not only in point of time, but also in facilitating the student's acquirement of knowledge in the remaining branches.

### OUTLINE OF THE COURSE, SESSION 1896-97.

Students of the First-year class will be required to attend instruction in the following branches, and to pass final examinations at the close of the term. If the student fails to pass, a second examination is open to him at the beginning of the next Regular Session.

1. Chemistry. Two lectures per week. Three hours laboratory.
2. Dental Materia Medica. One lecture per week.
3. Elementary Anatomy, including Osteology and Histology. Four lectures per week.
4. Physiology, excepting the Muscular and Nervous Systems. Four lectures per week.
5. Histology. Two hours laboratory instruction per week.
6. Osteology. One lecture and one demonstration per week.
7. Students of the First-year class will be trained in Elementary, Operative and Mechanical technics during hours not otherwise occupied.
8. They will, in addition to the subjects named, attend lectures on Mechanical Dentistry. Two hours per week.

### SECOND YEAR.

1. Students of the Second-year class will attend lectures on Anatomy and Physiology, Operative and Mechanical Dentistry, and add thereto Dental Pathology and Therapeutics and Clinical Dentistry.
2. They will pursue Operative and Mechanical Work, with the privilege of the Operating-Room and appliances during the morning and afternoon clinics.
3. The final examinations of the Second year will be upon Anatomy Physiology and Progress in Operative and Mechanical Dentistry.

## THIRD YEAR.

1. Students of the Third-year class will continue the practical work in Operative and Mechanical Dentistry, and the lectures on these subjects, together with Dental Pathology and Therapeutics, and Clinical Dentistry.
2. At the close of the term they will be required to pass examinations in these branches.

## COURSE OF INSTRUCTION.

The lectures on OPERATIVE DENTISTRY AND DENTAL HISTOLOGY embrace the comparative anatomy of the teeth; the functions and microscopical peculiarities of the dental organs; the development of teeth and their component tissues; a full description of the materials and instruments used in operative dentistry; a thorough elucidation of all dental operations, such as filling, extracting and regulating; the pathological relations of the teeth to the other parts of the system; and a minute description of all diseases related to dental surgery or of interest to the dentist. The methods taught are demonstrated in clinics.

The instruction in MECHANICAL DENTISTRY AND DENTAL METALLURGY embraces the proper fitting up of a dental laboratory; the use of tools; the melting, refining, alloying and working of metals, and alloys used by the dentist; the chemical and physical properties of materials pertaining to ceramic dentistry, their preparation and the most approved formulas for compounding bodies and enamels for the manufacture of block teeth and continuous-gum work; the history and properties of all substances used in making artificial dentures, as well as the mechanical treatment of cleft palate, including the several methods of constructing obturators for such cases, whether congenital or acquired. The lectures in this branch also include every approved mechanical means of correcting irregularities of the teeth, and are amply illustrated by specimens, models, diagrams and practical application in the laboratory, under the supervision of experienced mechanical dentists. Special attention will be directed to crown-and-bridge work, the higher branches of plate work, the continuous-gum process and carving teeth. Technical training in the making of plates, clasps and in setting rims, and in all the details of prosthetic dentistry is an important part of the course of instruction in this branch.

Every student is required to furnish his own bench tools for metal and rubber work, and will be provided with a place in which they can be locked when not in use.

The lectures on CHEMISTRY embrace the study of chemical physics and principles of chemical philosophy, together with a detailed consideration of the principal elementary substances and their compounds;

and of the fundamental principles of organic chemistry, including the classification of organic compounds, and the special study of typical members of the different classes. Special attention is also given to the laws of chemical affinity, and the conditions under which they are modified, especially as they relate to the preparation of mixtures and prescriptions.

The course in practical chemistry in the Laboratory includes exercises in chemical manipulation ; the study of the chemical properties of the principal metals ; the reactions of acids and their combinations ; and the general principles of qualitative analysis, especially as they relate to the detection and separation of the metals and compounds of interest to practitioners in all branches of dentistry. Each student is provided with a separate table and apparatus, and is required to perform all the usual chemical manipulations under the direction of demonstrators, as well as to exhibit by written formulæ all reactions involved in his tests.

HUMAN ANATOMY is taught in its relations to all the branches of medical science, including dentistry. The lectures are illustrated by fresh dissections of the human body, and by a rich museum of anatomical specimens, well-executed models and drawings.

THE OSTEO-SYNDESMOLOGICAL LABORATORY is under the supervision of the Professor of Anatomy and Demonstrator of Osteology. In this Laboratory, the First-year student is required to make himself familiar with the skeleton and the articulations as a part of his instruction in practical anatomy.

The course in PHYSIOLOGY includes thorough instruction on the subject of animal physiology, with special reference to the physiology of Man.

The lectures on DENTAL PATHOLOGY include such portions of general pathology as have a bearing upon the special subjects taught.

Dentition and its possible pathological results receive careful attention, followed by a detailed consideration of all the diseases to which the teeth and surrounding parts are liable, the character—normal and abnormal—of the oral secretions, and the direct and remote relations that the pathological conditions of the mouth sustain to other portions of the system.

The treatment required under each head is explained, and the recognized processes necessary to secure a return to normal conditions are minutely detailed.

MATERIA MEDICA is taught with special reference to the character and value of those remedies that have any bearing upon dental therapeutics.



In addition to the lectures and demonstrations by the Professor of Anatomy, practical instruction in general and special HISTOLOGY will be given in the histological laboratory to the students of the first year, the class being divided into sections. The laboratory is furnished with excellent microscopes, and all apparatus necessary to enable the student to become familiar with the most approved methods of microscopical technology, and with the minute structure of all the tissues and organs. Special facilities are afforded for original research; for this purpose the laboratory is open throughout the year, except during July and August.

**BACTERIOLOGY.**—At the coming session, 1896-97, and thereafter, the study of Bacteriology will constitute an obligatory part of the third-year curriculum. The growing importance of this subject in relation to dental pathology and therapeutics has made necessary certain modifications in the technique of nearly all dental operations. A clear understanding of the practical bearing of bacterial life-processes has become a necessity for intelligent and successful dental practice just as it has similarly for surgical practice.

The course will be so arranged with respect to the requirements of the dental practitioner that he will afterwards be able to not only correctly apply the most improved methods for preventing and combating bacterial action, and to develop an efficient system of anti-septic technique in connection with his work, but he will also be trained in the several methods that will enable him to study the bacterial factor which is the exciter of pathological conditions in special cases arising in his practice.

The instruction in bacteriology, under the direction of Dr. A. C. Abbott, of the Laboratory of Hygiene, will be both didactic and practical, the latter embracing full laboratory instruction. The course will be arranged in two parts, the first of which will be a course in Elementary Bacteriology, covering the following subjects:

1. Apparatus employed—sterilizers, incubators, pressure regulators, thermostats, etc.
2. Culture media, methods of preparation, sterilization methods.
3. Microscopic characteristics of cultures of bacteria in general and of special forms.
4. Methods of obtaining, from mixtures of different bacteria, individual species in pure cultures.

5. Microscopic technique. Use and care of instruments, staining from cultures, section cutting and staining and mounting of tissues.
6. Pathogenic bacteria, isolation, identification and inoculation.
7. Disinfection of instruments, appliances, etc., thermal and chemical, methods and apparatus, modes of testing efficiency.
8. Antisepsis and asepsis in dental surgery, preparation of dressings, instruments, operator and assistants and of patients.

Following this, the special study of Bacteriology in relation to dental pathological conditions will receive full consideration and elaboration. The classification, life-history, modus of infection and pathological significance of all bacterial forms having distinct dental importance will be studied in detail.

The lectures on these subjects will be appropriately illustrated, and accompanied by suitable demonstrations whenever possible. Examination upon the subject will be a prerequisite to the obtaining of the dental degree.

The text-book required is Abbott's *Principles of Bacteriology*. Miller's *Micro-organisms of the Human Mouth* will be used for the special study of the dental aspect of the subject.

CLINICAL DENTISTRY.—The instruction in this department has for its object the study of the whole range of dental operations as they arise in practice, especially from the clinical point of view.

The valuable clinical material which is afforded by the large dental infirmary service of the University is utilized as the basis of the instruction given both didactically and by demonstration. Cases are continually presenting for treatment in the infirmary service which furnish valuable points for study, and whenever these form suitable subjects for demonstration a study of the case is made for the benefit of the class. The student is thus brought into close contact with a great variety of dental and oral disorders, and is made familiar with the methods of diagnosis and the etiology and treatment of the conditions which he in this way studies with the actual cases before him.

The teaching in this department includes, beside the foregoing, a study of the professional relations of the dentist to his patients, involving matters of deportment, habits of personal cleanliness, etc.: in short, all of those factors of professional conduct and bearing which, taken together, determine the degree of his professional success.

In the lectures on clinical dentistry, all of the latest developments in operative procedures, so far as they may have value from the clinical standpoint, are presented and critically considered.

## CLINICAL PRACTICE.

Seven hours daily (except Saturday) are spent in actual practice under the supervision of the demonstrators; on Saturdays, from 9 A. M. to 1 P. M. Every student is required to provide his own instruments, except those for extracting. He is expected to keep them in perfect order, and will be furnished with a place in which they can be locked when not in use.

The preparation of crown-and-bridge work, and continuous-gum dentures, will be under the charge of specially qualified demonstrators. The increasing demand for these forms of artificial appliances has rendered necessary enlarged facilities for instruction in metal working in the mechanical laboratory, and the students are required to become familiar with the manipulation of metals and the preparation of other and more common materials.

## INFIRMARY AND LABORATORY.

The Infirmary and Laboratory are open to the students for practice every day during the week, excepting Saturday afternoon, this being reserved for Clinics that may be given by members of the faculty or instructors.

The Infirmary and Laboratory are open throughout the year, except during July and August.

## MUSEUM AND CABINETS.

THE WISTAR AND HORNER MUSEUM, founded nearly one hundred years ago and annually augmented, is unequalled in the United States for the number and variety of its specimens of the normal and the morbid anatomy of the human body. It also contains a large number of preparations in Comparative Anatomy; a rich collection relating to Dentistry, such as the different stages of dentition, abnormal conditions of the teeth, mandibles of the lower animals, etc.; and an extensive collection of models. This collection is deposited in the building opposite Medical Hall, erected by General Isaac J. Wistar, and called "The Wistar Institute of Anatomy and Biology." The Museum is open daily except Sunday. It is open every week-day from 1 P. M. to 3.30 P. M. throughout the sessions. The matriculation fee in the Department of Dentistry confers admission to the Museum.



## ARRANGEMENT OF THE REGULAR SESSION.

The Academic year consists of one session, beginning October 1 (or October 2 if the first falls on Sunday), and ending the second Thursday in June.

The session 1896-97 will begin on Thursday, October 1, 1896, and end on the second Thursday in June, 1897.

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N. B.—Special attention is called to the rule adopted by the National Association of Dental Faculties, August, 1895, requiring all applicants for matriculation to be present and enter their names *not later than the tenth of October*. This rule applies equally to students *entering the second and third year classes*.

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## CONDITIONS OF ADMISSION.

Candidates for admission are required: (1) To write an essay (not exceeding a page of legal cap), as a test of Orthography and Grammar; (2) To pass an examination in the English branches—viz., Grammar, Arithmetic, History and Geography.

A candidate who has received a collegiate degree, or passed the matriculate examination of a recognized college, or who has a certificate from a normal, high or grammar school, or a teacher's certificate, properly attested, may enter without examination.

Students who have attended one full term in a dental school recognized by the University, or who have attended one or more courses in a recognized medical college, will be admitted to the second year, subject to the rules governing examinations.\*

Students of the Third-year Dental class will be admitted to the Second-year class of the Department of Medicine of the University, and will be permitted to pursue the studies of the second year of the Medical course simultaneously with the studies of the Third-year course in the Department of Dentistry. This arrangement enables the successful candidate to obtain the degrees D. D. S. and M. D. in five years.

Graduates of a recognized medical school will be admitted to the Second-year Dental class without examination.

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\* All applicants for advanced standing must pass the examinations of the years they desire to omit, or furnish proof that they have passed *equivalent* examinations in some recognized dental or medical school.

## RULES GOVERNING EXAMINATIONS.

## FIRST AND SECOND YEAR STUDENTS.

1. The examination marks of this Department are based on a scale of 100. Each student must obtain a general average of 60 to pass the examinations of the year. 50 on a single branch will entitle him to average : less than 50 constitutes a failure in that branch.

2. Students who have failed to pass in any or all of the branches, have an opportunity given for a second examination before the opening of the next Regular Session ; but if the result of the second examination is unsatisfactory in more than one branch, the work of the year must be repeated.

3. A student may be permitted to matriculate in the succeeding year, provided he has successfully passed in all but one branch, with the condition that the one in which he has been found deficient must be passed prior to the examinations of the year in which he has been matriculated.

4. Students who have failed to complete the work of any year, or who are obliged to repeat, will be charged the regular fee.

## EXAMINATION FOR GRADUATION.

1. The examination marks shall be upon a scale of 100.

2. Each candidate must attain at least 50 in any single branch, and have a general average of 60, before he can be recommended for graduation.

3. Candidates who attain a general average of at least 90 shall be considered to have gained honors of the First Class, and will receive Honorable Mention.

4. The examination average shall be based on the examination marks of the whole curriculum.

## GRADUATION.

At the close of the third year, a student who has passed all examinations satisfactorily, receives the Degree of Doctor of Dental Surgery (D.D.S.), on the following conditions :

I. He must be of age and of good moral character.

II. He must have passed a satisfactory examination in all the branches of the curriculum ; must have attended the practical instruction in all departments ; and his last course of instruction must have been at this University.

III. He must have dissected at least two parts ; must have performed thoroughly, and to the satisfaction of the Professor of Operative Dentistry, all the usual dental operations ; must have undertaken at least

one artificial case, and brought it completed, with the patient, to the Professor of Mechanical Dentistry, thirty days before the close of the term; and must have prepared for presentation to the Professor of Mechanical Dentistry, before the first of May, a specimen case to be deposited in the University collection. The operations, as well as the work on the artificial case, must have been performed at the Dental Hall.

IV. After notice of having successfully passed the final examination, he must enter his name on the Register of Candidates for the Degree.

V. He must be present at Commencement, unless excused by the Dean of the Faculty.

### TEXT-BOOKS AND WORKS OF REFERENCE.

#### Text-Books.

#### Works of Reference.

#### *Operative Dentistry:*

Harris' Principles and Practice.  
Twelfth edition.

Taft's Operative Dentistry.  
Guilford's Orthodontia.  
Farrar's Irregularities of the Teeth  
and their Correction.

#### *Mechanical Dentistry and Metallurgy:*

Richardson, Mechanical Dentistry.  
Essig, Dental Metallurgy.

Wildman's Instruction in Vulcanite Work.  
Kingsley's Oral Deformities.

#### *Materia Medica:*

Gorgas, Dental Medicine.

H. C. Wood's Therapeutics.  
Wood & Bache's Dispensatory.

#### *Chemistry:*

Marshall's First-year Notes.  
Medicus' Qualitative Analysis.

Fownes' Chemistry.  
Mitchell, Dental Chemistry.  
Wormley's Micro-Chemistry of  
Poisons. Second Edition.

#### *Histology:*

Piersol.

Miller's Micro-Organisms of the  
Human Mouth.

#### *Anatomy:*

Gray.

Leidy's Anatomy.  
Tomes' Dental Anatomy

#### *Physiology:*

American Text-book of Physiology.

#### *Surgery:*

Ashhurst's Surgery.  
Agnew's Surgery.  
Billroth's Surgical Pathology.

## EXPENSES.\*

*First Year.*

Matriculation Fee (paid once only) . . . . .	\$5 00
Tuition Fee . . . . .	100 00

*Second Year.*

Tuition Fee . . . . .	\$100 00
Fee for Dissection . . . . .	10 00
Dissecting Material . . . . .	\$1 per part.

*Third Year.*

Tuition Fee . . . . .	\$100 00
Graduation Fee . . . . .	30 00
For each additional year . . . . .	100 00

The payment of the \$100 tuition fee may be divided as follows: \$50 on entering, and the balance *on or before November 1*. If any part is left unpaid after this date, \$10 will be added to the fee.

At the beginning of the first year, each student is required to make a deposit of five dollars with the Professor of Chemistry, to cover "breakage" in the chemical laboratories. Any balance remaining is returned. At least twenty-five dollars must be paid on account of tuition before the student can be admitted to the Chemical Laboratory.

Instruments for the first year can be procured at from \$35 to \$50. A dental engine for the second year, costing from \$30 to \$50, will complete the outfit. These instruments will be required in general practice.

Board can be obtained near the University for \$5.00 per week upward.

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Further information may be obtained from

EDWARD C. KIRK, Dean.

The Dean's office is in Medical Hall (Room 18). Office hours, 9 A. M. to 1 P. M.

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The subjoined reports give some conception of the character and mass of work performed in the Operative and Mechanical Departments; but the amount of costly material and of careful attention necessary for the insertion of 5,579 gold fillings can be appreciated only by the experienced operator.

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\*For Summary of Expenses, see page 33.

The number of patients (7,439) exhibits not only a gratifying confidence in the management of these departments, but also the value of the service to a large class of persons of limited means.

### OPERATIVE DEPARTMENT.

SESSION OF 1894-95.

Number of Patients . . . . . 7,439

Gold fillings . . . . .	5,579
Tin fillings . . . . .	1,487
Cement fillings . . . . .	1,509
Amalgam fillings . . . . .	825
Gutta-percha fillings . . . . .	986
Canal fillings . . . . .	306
Pulps capped . . . . .	406
Pulps devitalized . . . . .	444
Pulps extracted . . . . .	566
Pulpitis . . . . .	430
Treatment pulp canals . . . . .	1,085
Pericementitis . . . . .	111
Alveolar abscess . . . . .	147
Inflammation of gums . . . . .	213
Pyorrhœa alveolaris . . . . .	143
Salivary calculi . . . . .	141
Teeth and roots extracted . . . . .	3,647
Total . . . . .	18,025

Seventy-nine ounces (6 lbs. 7 ounces) of gold were used for filling, exclusive of that used for plate and crown work in the Laboratory.

### MECHANICAL DEPARTMENT

SESSION OF 1894-95.

Full cases . . . . .	320
Partial cases . . . . .	453
Pivot teeth and Crown Work . . . . .	160
Repairing cases . . . . .	51
Gold Bridge Work . . . . .	18
Practice Crown Work . . . . .	280
Total . . . . .	1,282

## SUMMARY OF EXPENSES.

## FIRST YEAR.

Fees, Department of Dentistry . . . . .	\$105 00
Deposit, Chemical Laboratory . . . . .	5 00
Books for entire course . . . . .	30 00
Instruments . . . . .	50 00
Deposit, keys for lockers . . . . .	2 00
Material for Histological and Mechanical Work . . . . .	6 00
Board, 35 weeks at \$5.00 . . . . .	175 00
Washing, 35 weeks at 75 cents . . . . .	26 25
Total, first year . . . . .	\$399 25

## SECOND YEAR.

General ticket . . . . .	\$100 00
Dissecting " . . . . .	10 00
Dissecting two parts . . . . .	2 00
Dental Engine (Instrument) . . . . .	50 00
Possibly, two Quiz classes . . . . .	14 00
Deposit, keys for lockers . . . . .	2 00
Material for Mechanical Work . . . . .	2 00
Board, 35 weeks at \$5.00 . . . . .	175 00
Washing, 35 weeks at 75 cents . . . . .	26 25
Total, second year . . . . .	\$381 25

## THIRD YEAR.

General ticket . . . . .	\$100 00
Graduation fee . . . . .	30 00
Class expenses, and Cap and Gown . . . . .	10 00
Deposit, keys for lockers . . . . .	2 00
Material for Mechanical Work . . . . .	2 00
Board, 37 weeks at \$5.00 . . . . .	185 00
Washing, 37 weeks at 75 cents . . . . .	27 75
Total, third year . . . . .	\$356 75

## STUDENT DENTAL SOCIETIES.

The JAMES TRUMAN and EDWIN T. DARBY Dental Societies were organized for mutual benefit in the study of Dentistry; to foster the spirit of individual investigation and research, and to promote social intercourse and good fellowship among the members. Every member of the Societies in good standing, on graduating from the Department of Dentistry, receives a certificate. Regular meetings are held every two weeks during the session,



SOCIETY OF THE ALUMNI OF THE DEPARTMENT OF  
DENTISTRY.

Any graduate of the Department of Dentistry, in good standing, may become a member of this Society by signing the Constitution, and paying the Treasurer the sum of one dollar. Any member who shall pay into the treasury the sum of five dollars, or who shall for five years pay into the treasury the sum of one dollar yearly, shall become a life member and be entitled to a membership certificate.

The annual meeting is held on the day previous to Commencement, and is followed in the evening by a collation.

## OFFICERS.

*President.*—Ira B. Crissman, D. D. S.

*Vice-Presidents.*—Frederick A. Peeso, D. D. S.; Alfred H. Porter, D. D. S.; Justin B. Harlan, D. D. S.

*Secretary and Treasurer.*—J. Edward Dunwoody, D. D. S., 743 North Fortieth St., Philadelphia, Pa.

*Corresponding Secretary.*—George C. Küsel, M. D., D. D. S., 733 North Forty-third St., Philadelphia, Pa.

*Chairman of Executive Committee.*—Harry B. McFadden, D. D. S., 3505 Hamilton St., Philadelphia, Pa.

*Orator.*—William L. Winner, D. D. S.

*Alumni are requested to send to the Secretary notice of change of residence, or other information likely to be of service to the Society.*



# DEGREES AND HONORS.

1894—1895.

## DEGREES IN COURSE.

At a public Commencement, held on THURSDAY, JUNE 13, 1895, the following Degrees were conferred :

### *Doctor of Dental Surgery:*

Name.	Post Office.	State.
Achard, William C.,	Basel,	Switzerland.
Aitken, William L.,	Melbourne,	Australia.
Allen, George S.,	Chicago,	Illinois.
Angle, William P.,	Danville,	Pennsylvania.
Barrios, Carlos A.,	Rivas,	Nicaragua.
Best, Hass D.,	Knox,	Pennsylvania.
Bradner, A. Mark,	Wissinoming,	Pennsylvania.
Bushong, Charles A.,	Philadelphia,	Pennsylvania.
Campbell, D. Robertson,	Edinburgh,	Scotland.
L. D. S.		
Carballo, Victor,	Montevideo,	Uruguay.
Cleaver, Harry L.,	Manatawny,	Pennsylvania.
Decker, Walter E.,	Towanda,	Pennsylvania.
Dobbyn, W. E. Stanhope,	Beechworth,	Australia.
Donnegan, Edmond J.,	Scranton,	Pennsylvania.
Dudderidge, William,	Lachute,	Canada.
Dudley, Jonas G.,	Worcester,	Massachusetts.
Dunlop, David, L. D. S.,	Kilmarnock,	Scotland.
Evans, Charles S.,	Tidioute,	Pennsylvania.
Faulk, Joseph E.,	Titusville,	Pennsylvania.
Forrest, James D., L. D. S.,	Glasgow,	Scotland.
Garretson, Walter R.,	Knoxville,	Iowa.
Grandy, Willis P.,	Nelson,	Arkansas.
Hagerty, Sheward,	West Chester,	Pennsylvania.
Hahn, George H.,	Philadelphia,	Pennsylvania.
Harris, William E.,	Lynchburg,	Virginia.
Hassell, Newton Chambers,	Philadelphia,	Pennsylvania.
Hoenig, Edward A.,	Titusville,	Pennsylvania.
Hood, J. Herbert,	Cambridge,	Pennsylvania.
Houston, Joseph M.,	Carlisle,	Pennsylvania.
Hurlbut, Cornelius S., Jr.,	Springfield,	Massachusetts.
Kemple, Fred C.,	Bellaire,	Ohio.
Kilmore, John A.,	Lewisberry,	Pennsylvania.
Kribbs, Franklin F.,	Lamartine,	Pennsylvania.
Lang, Oscar,	Milwaukee,	Wisconsin.
Levy, Roman James,	Warsaw,	Russia.
Lewis, Samuel A. A.,	Providence,	Rhode Island.
Lopez, Lascano, Juan A.,	Guayaquil,	Ecuador.
Madan, José Rafael,	Matanzas,	Cuba.

Name.	Post Office.	State.
Mader, J. Boyd,	Lock Haven,	Pennsylvania.
Maitland, Arthur G.,	Invercargill,	New Zealand.
Manchester, Frank B.,	Ocean City,	New Jersey.
Middleton, Richard, D.V.S.,	Philadelphia,	Pennsylvania.
Moorhead, William J.,	Brockwayville,	Pennsylvania.
Myers, Charles S.,	Lancaster,	Pennsylvania.
Nabers, Samuel F.,	Birmingham,	Alabama.
Noble, William B.,	Millersville,	Pennsylvania.
Odell, Charles F.,	Toledo,	Ohio.
Pimienta, Alfredo,	Malaga,	Spain.
Potter, Frank J.,	Wells Bridge,	New York.
Robinson, William T.,	Philadelphia,	Pennsylvania.
Rous, Armand,	Vevay,	Indiana.
Saxenmeyer, George B.,	Philadelphia,	Pennsylvania.
Schaffer, J. Harry,	Marathon,	New York.
Schwabe, August Oscar,	Hermanstadt,	Austria-Hungary.
Sorg, Daniel E.,	Pittsburg,	Pennsylvania.
Spangler, Adam C.,	Middleburg,	Pennsylvania.
Stanley, Rolof B.,	Philadelphia,	Pennsylvania.
Stilson, Ira B.,	Glenbrook,	Connecticut.
Sturtevant, Harry C.,	Philadelphia,	Pennsylvania.
Tann, Isaac R.,	Pittsburg,	Pennsylvania.
Taylor, Fred G.,	Elkhorn,	Wisconsin.
Traynor, Philip A.,	Wilmington,	Delaware.
Van Valin, Clyde A.,	Fleming,	Pennsylvania.
Watson, David S.,	Freeport,	Illinois.
Watters, T. Frederick,	Akron,	Ohio.
Welch, Frank P.,	Portland,	Oregon.
Wells, Frederick M.,	Acton Vale,	Canada.
Wells, William C.,	Geneva,	New York.
Wishart, Edward,	Waterford,	Pennsylvania.
Yale, William H.,	San Francisco,	California.

Total, 70.

## SUMMARY.

Alabama . . . . .	1	New York . . . . .	3
Arkansas . . . . .	1	New Zealand . . . . .	1
Australia . . . . .	2	Nicaragua . . . . .	1
Austria . . . . .	1	Ohio . . . . .	3
California . . . . .	1	Oregon . . . . .	1
Canada . . . . .	2	Pennsylvania . . . . .	31
Connecticut . . . . .	1	Rhode Island, . . . . .	1
Cuba . . . . .	1	Russia . . . . .	1
Delaware, . . . . .	1	Scotland . . . . .	3
Ecuador . . . . .	1	Spain, . . . . .	1
Illinois . . . . .	2	Switzerland . . . . .	1
Indiana . . . . .	1	Uruguay . . . . .	1
Iowa . . . . .	1	Virginia . . . . .	1
Massachusetts . . . . .	2	Wisconsin . . . . .	2
New Jersey . . . . .	1		
		Total . . . . .	70

## IN THE FACULTY OF DENTISTRY:

At the Examination for Degrees, Honorable Mention for averages exceeding 90, to

Samuel F. Nabers,  
Sheward Hagerty,  
John A. Kilmore,  
Clyde A. Van Valin,  
Edward R. Wishart,

Fred G. Taylor,  
Walter R. Garretson,  
Charles S. Evans,  
Fred C. Kemple,  
Charles S. Myers,

William H. Yale.

## DEPARTMENT OF DENTISTRY.

## THIRD YEAR CLASS.

Name.	Residence.	City Address.
Avil, Francis Savoy,	Philadelphia,	4433 Pine St.
Beard, Fayette H.,	Hanover,	3322 Woodland Ave.
Bender, Charles Dana,	Meadville,	3934 Pine St.
Benz, John C.,	Oswego, N. Y.,	3348 Lancaster Ave.
Blaker, Charles S.,	Trevesé,	Trevesé, Pa.
Bönten, Carl,	Krefeld, Germany,	3337 Woodland Ave.
Bull, Alfred E.,	Wilkesbarre,	124 S. 36th St.
Byrkit, Guy M.,	Red Oak, Ia.,	3250 Chestnut St.
Cardwell, Ernest E.,	Lancaster, Eng.,	122 S. 34th St.
Chace, J. Edward,	Ocala, Fla.,	3266 Sansom St.
Christine, Charles A., Jr.,	Philadelphia,	5112 Master St.
Clay, Samuel T.,	Hanover,	7103 Woodland Ave.
Clemens, Thomas J.,	Philadelphia,	2028 Madison Ave.
Colborn, Charles W.,	Ashley,	3200 Market St.
Connelly, Albert L.,	Honesdale,	3254 Chancellor Place
Cornell, J. Harold,	Philadelphia,	1605 N. 10th St.
Crist, Nile,	Hummelstown,	3332 Chestnut St.
Decker, Clyde,	Newton, N. J.,	3411 Woodland Ave.
Denis, Herbert B.,	Red Bank, N. J.,	124 S. 34th St.
Dobbyn, G. Henry S.,	Beechworth, Aus.,	3960 Pine St.
Dowden, James A.,	Binghamton, N. Y.,	114 S. 33d St.
Earley, John, Jr.,	Vroman,	3743 Spruce St.
Eisenhart, William S.,	York,	4212 Chester Ave.
Elliott, Morris F.,	Franklin,	210 S. 36th St.
Ellis, Malcolm,	S. Paulo, Brazil,	3337 Woodland Ave.
Farrar, William,	London, Ohio,	3607 Locust St.
Feibusch, Carl,	Bromberg, Ger- many,	3341 Woodland Ave.
Gamble, T. Stanley,	Butler,	118 S. 33d St.
Gilbert, V. Walter,	Philadelphia,	4726 Springfield Ave.
Graeber, Nicholas J.,	Ashland,	3314 Walnut St.
Graham, William C.,	Lancaster, Ohio,	33 N. 34th St.
Grey, Pearl Zane,	Columbus, Ohio,	124 S. 36th St.
Guest, G. Clifton,	Philadelphia,	4416 Market St.
Headridge, John P.,	Knutsford, Eng.	
Hickman, Harry B.,	Lewes, Del.,	3348 Lancaster Ave
Houck, C. Oliver,	Laanna,	3953 Baltimore Ave.
Keeler, J. Ernest,	Philadelphia,	1748 N. 8th St.
Kiner, William E.,	Atkinson's Mills,	829 N. 40th St.
Knapp, Frederick F.,	Towanda,	3266 Sansom St.
Lawshe, Allison R.,	Trenton, N. J.,	209 McAlpin St.
McCarty, Walter W.,	Des Moines, Ia.,	3250 Chestnut St
Marsh, William C.,	Worcester, Mass.,	209 McAlpin St.
Matheny, Sherman M.,	Ellwood City,	124 S. 34th St.
Meaker, Lucius P.,	Auburn, N. Y.,	3619 Locust St.
Mergelkamp, Guillermo E.,	Trujillo, Peru,	Darby.

Name.	Residence.	City Address.
Moestue, Ludwig,	Christiania, Norway,	3337 Woodland Ave.
Moore, Edward H.,	St. Petersburg,	3266 Sansom St.
Musser, Daniel K.,	Aaronsburg,	3734 Sansom St.
O'Hagan, John H.,	Ogdensburg, N. Y.,	3254 Chancellor Pl.
Ozias, J. Howard,	Quakertown,	3728 Lancaster Ave.
Parry, George C.,	Rochester, N. Y.,	4133 Parrish St.
Pearse, C. Gilbert,	Tunbridge Wells, England,	122 S. 34th St.
*Peters, Wilhelm,	Berlin, Germany.	
Pottle, Fred E.,	Bangor, Me ,	61 N. 34th St.
Prichett, Harry S.,	Minneapolis, Minn.,	3322 Woodland Ave.
Rabb, Charles W.,	Bloomsburg,	3230 Lancaster St.
Rank, Edward D.,	Williamstown,	3432 Sansom St.
Reitz, Ralph B., A. B.,	Stanton,	3318 Walnut St.
Reynolds, Harry F.,	South Gibson,	3926 Pine St.
Richards, Newton C.,	Easton,	205 McAlpin St.
Ruegg, Charles,	Ragaz, Switzer- land,	4332 Market St.
Schamberg, Morris I.,	Philadelphia,	831 N. Broad St.
Schultz, Frank H.,	Lancaster, Ohio,	878 N. 22d St.
Schürger, Joseph,	Ungvar, Hungary,	4332 Market St.
Sears, Blake A.,	Ithaca, N. Y.,	3348 Lancaster Ave.
Seymour, James C.,	Omaha, Neb.,	Ambler, Pa.
Shapard, Herbert H.,	Austin, Texas,	3322 Woodland Ave.
Shiffler, Vane G.,	Lebanon,	3322 Woodland Ave.
Speirs, George C.,	Hartford, Conn.,	3308 Woodland Ave.
Stauffer, Nathan P.,	Phoenixville,	3617 Locust St.
Taeuber, P. Albert,	Davos, Switzer- land,	3716 Baring St.
Tracy, William D.,	Worcester, Mass.,	3348 Lancaster Ave.
Turner, William K., Jr.,	Philadelphia,	316 Preston St.
Venn, Otto,	Essen, Germany,	603 S. 42d St.
Walker, S. Albert,	Philadelphia,	2263 N. 13th St.
Weaver, Elbert J.,	Elkhorn, Wis.,	3322 Woodland Ave.
Webster, William L.,	So. Hammond, N. Y.,	3322 Woodland Ave.
Wharton, Charles M.,	Smyrna, Del.,	3607 Locust St.
Yeakel, William, A. B.,	Old Zionsville,	3428 Sansom St.

Students of the Third-year Class, 79.

#### SECOND YEAR CLASS.

Allen, Thomas J.,	Philadelphia,	2513 Emerald St.
Allwood, William A.,	Chapelton, Jamaica,	415 S. 40th St.
Alvarez, Joseph A.,	Cienfuegos, Cuba,	3340 Chestnut St.
Archibald, Charles H.,	Truro, Canada,	1416 Christian St.
Beecher, George Rollin,	Canandaigua, N. Y.,	3728 Lancaster Ave.
Beecher, Hesper,	Columbus, Ga.,	3266 Sansom St.
Bohn, Edward W.,	Reading,	3313 Walnut St.

\* Not in attendance.



Name.	Residence.	City Address.
Bowman, Glenni F.,	East Hickory,	3314 Walnut St.
Breninger, Harry E.,	Philadelphia,	2319 Carlisle St.
Burnham, Edward P.,	Wilmington, Del.	[828 Washington St.]
Burt, Charles E.,	Wellsville, Ohio,	3314 Walnut St.
Callahan, J. Henry,	Bridgeport, Conn.,	3615 Locust St.
Carlisle, Lester Luff,	Frederica, Del.,	3202 Summer St.
Case, George C.,	Winsted, Conn.,	3924 Pine St.
Champagne, George T.,	Middlebury, Vt.,	12 S. 34th St.
Chesbro, Ellis J.,	Sheridan, N. Y.,	124 S. 34th St.
Congdon, M. Pembroke,	Binghamton, N. Y.,	3258 Walnut St.
Conklin, Wirt H.,	Montrose,	3344 Walnut St.
Copley, William M.,	Wells Bridge, N. Y.,	54 N. 36th St.
Correa, Francis, Jr.,	Philadelphia,	204 Rittenhouse St., Gtn.
Crowell, Charles M.,	Hall,	4106 Powelton Ave.
Crump, Daniel R.,	Dravosburg,	3348 Lancaster Ave.
Darragh, Frank X.,	Philadelphia,	4227 Powelton Ave.
Dickinson, J. Byers,	Batesville, Ark.,	3348 Lancaster Ave.
Dickson, George W.,	Trenholm v'e, Can.,	3614 Market St.
Doane, Arthur G.,	Athol, Mass.,	3929 Baltimore Ave.
Dolan, John J.,	Worcester, Mass.,	122 S. 34th St.
Edwards, G. Benjamin,	Laceyville,	3711 Lancaster Ave.
Eglin, Archibald C.,	Philadelphia,	4230 Chester Ave.
Eisen, Ernest J.,	Milwaukee, Wis.,	3439 Woodland Ave.
Ellerbeck, W. Leon,	Salt Lake City,	3619 Locust St.
	Utah,	
Ellis, Guilherme, Jr.,	S. Paulo, Brazil,	3337 Woodland Ave.
Eynon, Thomas A.,	Scranton,	3408 Sansom St.
Failing, Frazier M.,	Albany, N. Y.,	3256 Chestnut St.
Feldman, Henry P.,	Allentown,	3254 Chestnut St.
Flexer, G. Alfred,	Allentown,	3266 Sansom St.
Gardiner, William H.,	Auburn, N. Y.,	3318 Woodland Ave.
Groth, C. Fredrick P.,	Philadelphia,	1607 S. 6th St.
Hand, Robert D.,	Cape May, N. J.,	3439 Chestnut St.
Harmer, Harry G.,	Philadelphia,	Walnut Lane & Main St., Germantown.
Haselo, Fred. W.,	Scotia, N. Y.,	3256 Chestnut St.
Hawkey, Richard J.,	Victoria, Brit. Col.,	1901 Mt. Vernon St.
Hawley, D. Banks,	Bridgeport, Conn.,	3615 Locust St.
Herr, Thomas A.,	Worcester, Mass.,	122 S. 34th St.
Heyde, Otto von der,	Constantinople,	106 S. 33d St.
	Turkey,	
Hill, Isaac J.,	St. Petersburg,	493 N. 4th St.
	Russia,	
Hinkson, George W.,	Media,	27 N. 37th St.
Hoeffler, William C.,	Pottsville,	3303 Walnut St.
Holloway, Allan,	Philadelphia,	3618 Hamilton St.
Horne, J. Earle,	Lancaster,	3615 Locust St.
† Huey, Robert, Jr.,	Philadelphia,	330 S. 15th St.
Huggins, Joseph,	Tacoma, Wash.,	4212 Chester Ave.

Name.	Residence.	City Address.
Hurst, Alfred C., Jr.,	Beaver,	3248 Sansom St.
Ingraham, William J.,	Binghamton, N. Y.,	114 S. 33d St.
Jackson, M. Roy,	Camden, Del.,	3613 Locust St.
Janes, Carey E.,	Randolph, N. Y.,	124 S. 34th St.
Joffe, Leon S.,	Moscow, Russia,	933 N. 2d St.
Johnston, Roy R.,	Meadville,	3934 Pine St.
Kerr, David E.,	Greenfield, Ohio,	3434 Sansom St.
Ketcham, Frank S.,	Brooklyn, N. Y.,	3220 Chestnut St.
Kingsbury, Addison, A. B.,	Marietta, Ohio,	3434 Sansom St.
Kochersperger, Josiah N.,	Philadelphia,	1027 E. Montgomery Avenue.
Koontz, Harry F.,	Antioch, Ohio,	33 N. 34th St.
Kurtz, Harry L.,	Connellsville,	33 N. 34th St.
Langfitt, S. Benton,	Eagle Mills, W. Va.,	124 S. 34th St.
Laughlin, Edward J.,	Indiana,	3725 Spruce St.
Lockett, Leonard,	Williamsfield,	3619 Locust St.
Ludlow, S. Freed,	Jamaica,	
Luffbarry, William H., Jr.,	Spring Lake, N. J.,	3301 Walnut St.
Lyman, I. Olin,	Philadelphia,	2359 E. Dauphin St.
McAvoy, George L.,	Pittston,	3214 Chestnut St.
McDonald, Lee L.,	Willimantic, Conn.,	3314 Walnut St.
Mayer, John A., Jr.,	St. Joseph, Mo.,	124 S. 34th St.
Mentzer, Evan W.	Mauch Chunk,	3340 Lancaster Ave.
Miller, Raymond S.,	Blainsport,	3929 Baltimore Ave.
	Ocean Grove,	3348 Lancaster Ave.
	N. J.,	
Murray, Frank H.,	St. Paul, Minn.,	4438 Chestnut St.
Musser, Andrew S.,	Aaronsburg,	3737 Sansom St.
Neech, Alfred Rudolphe,	Mulhouse, Ger-	3619 Locust St.
	many,	
Newkirk, Henry C.,	Monticello, N. Y.,	3220 Chestnut St.
Nichol, James P.,	Philadelphia,	3964 Poplar St.
O'Connor, Henry C.,	Eagle River, Wis.	108 S. 33d St.
Paine, Nelson T.,	New York, N. Y.,	7 S. 43d St.
Patterson, George F.,	Steubenville, O.,	3314 Walnut St.
Pennell, Clarence A.,	Davenport, Iowa,	3346 Lancaster Ave.
Phymister, William J.,	Montreal, Canada,	3439 Woodland Ave.
Preston, Charles S.,	Paris, Ill.,	205 S. 33d St.
Purvis, Robert, Jr.,	Philadelphia,	3403 Walnut St.
Read, Charles H.,	Ogden, Iowa,	3420 Sansom St.
Richardson, Walter H.,	Worcester, Mass.,	3348 Lancaster Ave.
Rinebold, Eugene F.,	Overton,	3266 Sansom St.
Royce, Charles J.,	Willimantic, Conn.,	3314 Walnut St.
Sayre, Robert D.,	Moncton, Canada,	3929 Baltimore Ave.
Schermerhorn, Alfred R.,	Philadelphia,	3215 Hamilton St.
Schultz, Paul B.,	Bloomsburg,	3334 Walnut St.
Smith, Edward F.,	Ashley,	3200 Woodland Ave.
Smith, Fred E.,	Pittsburg,	1004 Pine St.
Snyder, Royal W.,	Freeport, Ill.,	3340 Lancaster Ave.
St. Amand, Augustus C.,	Scranton,	415 S. 40th St.
Stannard, Joseph B.,	Linneus, Mo.,	3607 Locust St.



Name.	Residence.	City Address.
Swentzel, Raymond A. E.,	Pittsburg,	3328 Walnut St.
Tantum, Leon B.,	Wilmington, Del.,	4254 Chestnut St.
Thompson, Will M.,	Pittsburg,	35 N. 34th St.
Trout, Charles H.,	Lancaster,	3423 Walnut St.
Urian, Harry D.,	Philadelphia,	5503 Woodland Ave.
Voigt, L. Lee,	Pittsburg,	3913 Woodland Ave.
Watson, J. Thornton,	Philadelphia,	U. S. Naval Home.
Welch, Harry L.,	Roadstown, N. J.,	3927 Pine St.
Wells, Albert D.,	Marcellus, N. Y.,	3344 Walnut St.
Williams, Herbert E.,	Ocean Grove, N. J.,	3243 Sansom St.
Williams, Howard J.,	Ashland,	3314 Walnut St.
Wright, Harry I.,	Philadelphia,	4140 Leidy Ave.
*Young, George,	Bucharest, Roumania,	1336 Spruce St.
Zerfing, Henry F.,	Ashland,	3435 Lancaster Ave.
		Students of the Second-year Class, 113.

## FIRST YEAR CLASS.

Agnew, William E.,	Kemptville, Canada,	4222 Regent Square.
Andrade, Camilo,	Guayaquil, Ecuador,	3341 Woodland Ave.
Armatage, J. H. Porter,	Richmond, Canada,	3614 Market St.
Babcock, Warren,	So. New Berlin, N. Y.,	3431 Walnut St.
Bache, Hugh V.,	Bound Brook, N. J.,	3413 Walnut St.
Bankhead, C. Howard,	Tidioute,	3336 Chestnut St.
Bastian, Minot V.,	Clinton, Mass.,	3303 Walnut St.
Beswick, T. Clawson,	Milford, Del.,	4 S. 36th St.
Bird, Frank S.,	Trenton, N. J.,	3313 Walnut St.
Bixler, William O.,	Easton,	3715 Spruce St.
Booth, William W.,	Pittsburg,	3303 Walnut St.
Brininstool, Charles,	Rochester, N. Y.,	3805 Baring St.
Brownell, John E.,	Philadelphia,	106 S. 33d St.
Callahan, Lewis,	Philadelphia,	703 N. 19th St.
Camp, Frederick H.,	Bridgeport, Conn.,	3707 Walnut St.
Campbell, Noble C.,	North East,	Wistar Institute.
*Carroll, George F.,	Winsted, Conn.	
Casler, Ray F.,	Henderson, N. Y.,	3344 Walnut St.
Chaplin, William R.,	Savannah, Ga.,	3939 Baltimore Ave.
Clark, La Mancha M.,	Jefferson, N. Y.,	3336 Chestnut St.
Clark, William,	Philadelphia,	315 Locust Ave., Gtn.
Coyle, James T.,	Jersey City, N. J.,	3268 Sansom St.
*Craig, Edmund D.,	Philadelphia,	1213 Peter St.
Cramer, William L.,	Portland, Conn.,	122 S. 34th St.
Cressman, Howard B.,	Philadelphia,	140 Phil-Ellena St., Germantown.
Cunningham, Edward G.,	Stamford, Conn.,	1711 Vine St.
Danahay, M. Joseph,	Hopkinton, Mass.,	122 S. 34th St.,

\* Not in attendance.

Name.	Residence.	City Address.
Du Four, Charles F.,	Williamsport,	3203 Spencer Terrace.
Dunlevy, Charles W.,	Philadelphia,	3945 Fairmount Ave.
Dupont, Charles C.,	Savannah, Ga.	3939 Baltimore Ave.
Eddy, George S., Jr.,	Fall River, Mass.,	4005 Ogden St.
Edger, William S.,	Philadelphia,	1426 McKean St.
Entwisle, Richard L.,	Philadelphia,	2534 N. 15th St.
Erwin, John,	Bethlehem,	3304 Woodland Ave.
Forsyth, John C.,	Allentown, N. J.,	3323 Walnut St.
Fowler, Stanley N.,	Wilmington, Del.,	[809 Van Buren St.]
Fraenkel, Bernhard,	Breslau, Germany,	3643 Walnut St.
Frederici, Floyd C.,	Scranton,	475 S. 40th St.
Gallivan, Daniel L.,	W. Brookfield, Mass.,	122 S. 34th St.
Gaylord, Albert N.,	Binghamton, N. Y.,	3434 Sansom St.
Gibson, Robert H.,	Williamsport,	3743 Spruce St.
Goldsmith, Alfred F.,	Philadelphia,	529 N. 6th St.
Hagee, J. Gilbert,	West Grove,	West Grove, Pa.
Hansell, G. Grier,	Philadelphia,	1531 Spruce St.
Hark, Hugo C.,	Bethlehem,	3304 Woodland Ave.
Hastings, James M., Jr.,	Oswego, N. Y.,	608 Van Buren St., Wilmington, Del.
Hay, John I.,	Carverton,	3904 Baltimore Ave.
Henry, Clare M.,	Basking Ridge, N. J.,	3331 Walnut St.
Hoffman, Rollin Don.,	Newark, N. Y.,	3637 Locust St.
Hollingsworth, Merrill W.,	Philadelphia,	61 N. 34th St.
Hopkins, William,	Philadelphia,	1911 S. Broad St.
Hunter, James K.,	Uhrichsville, O.,	111 S. 34th St.
Jackaway, Zachary T.,	Philadelphia,	2327 E. Norris St.
Jacobs, Hiram C.,	Warren,	3439 Woodland Ave.
Jacobs, I. Budd, Jr.,	Oil City,	127 S. 34th St.
James, M. J. Albert,	Bowmanv'e, Can.,	3431 Walnut St.
Keller, William L.,	Harrisburg,	1231 Arch St.
Langfitt, S. Erb,	West Union, W. V.,	124 S. 34th St.
*Leadbetter, Charles C.,	Saginaw, Mich.,	3267 Sansom St.
Lincoln, Eugene A.,	Oakham, Mass.,	998 N. 6th St.
Longenecker, Oliver G.,	Mount Joy,	3615 Locust St.
McCowan, Roy P.,	Lancaster, Ohio,	3406 Sansom St.
McGowan, David, Jr.,	Steubenville, O.,	3346 Walnut St.
McLaren, Fred E.,	Manchester, N. H.,	3423 Walnut St.
*Mace, Fred W.,	Philadelphia,	4046 Ogden St.
Marsh, Harvey B.,	La Plume,	3337 Woodland Ave.
Mears, Willard S.,	Wilmington, Del.,	[103 E. 2d St.]
Metzger, Preston,	Bedford,	3220 Chestnut St.
*Middleton, Gabriel,	Philadelphia,	106 S. 20th St.
Millikin, J. Duncan,	San José, Cal.,	3344 Lancaster Ave.
Moorhead, Tolbert B.,	McDonald,	3406 Sansom St.
Naley, Clyde M.,	Manor,	3339 Woodland Ave.
Napton, Thomas L.,	Butte, Montana,	3210 Chestnut St.

Name.	Residence.	City Address.
O'Neill, Charles H.,	Ashley,	3923 Baltimore Ave.
O'Neill, James,	Philadelphia,	45 N. 38th St.
Parry, George,	Breadysville.	
*Patchell, Samuel B.,	Philadelphia,	707 Birch St.
Peck, William G.,	Auburn, N. Y.,	3439 Woodland Ave.
Perkins, Leroy E.,	Waymart,	3953 Baltimore Ave.
Phillips, Tallie,	Scranton,	3408 Sansom St.
Piper, Harry F.,	Barnesville, Ohio,	3725 Spruce St.
Porter, John B.,	Waterbury, Conn.,	223 S. 33d St.
Pursel, William Dana,	Phillipsburg, N.J.,	3531 Locust St.
Racines, Guillermo,	Buga, U. S. of Co-	3341 Woodland Ave.
	lombia,	
Reese, David J.,	Gelatt,	3931 Baltimore Ave.
Reynolds, Alexander H.,	Middletown, Del.,	4724 Adeline St.
Richards, Walter,	Woodside, Del.,	322 N. 32d St.
Ristine, Walter M.,	Bryn Mawr.	
Roberts, F. Butler,	Ebensburg,	3937 Pine St.
Ronan, Mathew F.,	Antigonish, Can.,	33 N. 34th St.
Sage, Alfred H.,	Bridgeport, Conn.,	3707 Walnut St.
Saunders, Frederick H.,	Lee, Mass.,	3606 Powelton Ave.
Saylor, Curwen S.,	Schuylkill Haven,	3336 Chestnut St.
*Schomo, Robert E.,	Ashland.	
Scott, Charles C.,	Worcester, Mass.,	1508 Moore St.
Sears, John Gibson,	New Brighton,	3606 Powelton Ave.
	N. Y.,	
Seymour, Louis R.,	Warren, R. I.,	3308 Woodland Ave.
Shoemaker, Donald H.,	Ebensburg,	3703 Woodland Ave.
*Simon, E. Clarence,	Harrisburg.	
Sinsabaugh, Alfred H.,	Laceyville,	3711 Lancaster Ave.
Smith, S. Snow,	Union, N. Y.,	3614 Market St.
Solliday, Howard M.,	Trenton, N. J.,	3314 Walnut St.
Spieker, Fred. W.,	Philadelphia,	Mt. Airy.
Spieker, George H.,	Philadelphia,	Mt. Airy.
Sprague, A. Fullmer,	Williamsport,	3301 Walnut St.
Stackhouse, Arthur,	Hull, Canada,	3709 Woodland Ave.
Stearns, John,	Providence, R. I.,	3210 Chestnut St.
Stewart, Marcus R.,	Vroman,	3743 Spruce St.
Thomas, Eugene L.,	Whitesville, Mo.,	124 S. 34th St.
Thomas, William A.,	Whitesville, Mo.,	124 S. 34th St.
Thompson, George B.,	Lemont,	3318 Walnut St.
Trenholm, Charles B.,	Trenholmville,	3614 Market St.
	Canada,	
*Villar, Basilio del,	Cardenas, Cuba,	103 S. 34th St.
Waddel, Ralph,	Greenfield, Ohio,	3434 Sansom St.
Wade, Thomas B.,	Champaign, Ill.,	3913 Woodland Ave.
Waechter, John Louis,	Philadelphia,	811 Randolph St.
Wallace, Fred,	Oswego, N. Y.,	209 McAlpin St.
Waters, George Redman,	Philadelphia,	631 N. 32d St.
Weakley, George B.,	Carlisle,	3337 Woodland Ave.

Name.	Residence.	City Address.
Webb, Walter,	Philadelphia,	1230 Reed St.
Wesler, Harry H.,	Richmond, Ind.,	3265 Sansom St.
Wood, Fred F.,	Warwick, N. Y.,	3337 Woodland Ave.
Woodcock, Arthur W.,	Winchendon, Mass.,	204 S. 36th St.
*Woodcock, Frank B.,	Winchendon, Mass.	
Woodrow, Howard H.,	Philadelphia,	1509 Swain St.
Students of the Third-year Class, 125.		

## SPECIAL STUDENTS.

Artigas, F. Pastor,	San Andres, Tuxtla, Mexico,	3338 Chestnut St.
Cromar, Alexander, L. D. S.,	Aberdeen, Scotland,	122 S. 34th St.
Dobbyn, W. E. Stanhope, D. D. S.,	Beechworth, Australia,	3960 Pine St.
Fuller, Dwight B., D.D.S.,	Philadelphia,	208 N. 34th St.
Lossada, Diaz Demetrio,	Maracaibo, Venezuela,	3341 Woodland Ave.
Madan, Josè Rafael, D.D. S.,	Matanzas, Cuba,	3341 Woodland Ave.
Pimienta, Alfredo, D. D. S.,	Cardenas, Cuba,	127 S. 36th St.
		Special Students, 7.

## SUMMARY.

Students of the Third-year Class . . . . .	79
Students of the Second-year Class . . . . .	113
Students of the First-year Class . . . . .	125
Special Students . . . . .	7
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Total, 324	

The total number of new matriculates for the present session, including those admitted to advanced standing, is 145.

Since the foundation of the Department, the total number of graduates has been 851.

## SUMMARY BY STATES.

Arkansas . . . . .	1	Iowa . . . . .	4	Rhode Island . . . . .	2
Australia . . . . .	2	Jamaica, W. I. . . . .	2	Roumania . . . . .	1
Brazil . . . . .	2	Maine . . . . .	1	Russia . . . . .	2
British Columbia . . . . .	1	Massachusetts . . . . .	15	Scotland . . . . .	1
California . . . . .	1	Mexico . . . . .	1	Switzerland . . . . .	2
Canada . . . . .	10	Michigan . . . . .	1	Texas . . . . .	1
Connecticut . . . . .	12	Minnesota . . . . .	2	Turkey . . . . .	1
Cuba . . . . .	4	Missouri . . . . .	4	U. S. of Colombia . . . . .	1
Delaware . . . . .	11	Montana . . . . .	1	Utah . . . . .	1
Ecuador . . . . .	1	Nebraska . . . . .	1	Venezuela . . . . .	1
England . . . . .	3	New Hampshire . . . . .	1	Vermont . . . . .	1
Florida . . . . .	1	New Jersey . . . . .	15	Washington . . . . .	1
Georgia . . . . .	3	New York . . . . .	32	West Virginia . . . . .	2
Germany . . . . .	6	Norway . . . . .	1	Wisconsin . . . . .	3
Hungary . . . . .	1	Ohio . . . . .	14		
Illinois . . . . .	3	Pennsylvania . . . . .	145	Total . . . . .	324
Indiana . . . . .	1	Peru . . . . .	1		

Students from United States and Canada . . . . . 290

Students from foreign countries . . . . . 34











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